

PCP™ **MARK II**

NATURALIZER™
NATURALIZER

UP
↑
water unit
SERIAL NO. 20021


CAUTION
KEEP OUT OF REACH OF CHILDREN.

Refer to instructions furnished with unit for proper use.

When cartridge is exhausted, wrap in newspaper and discard with trash.

ACTIVE INGREDIENT:
Silver (as silver chloride) 0.936%
INERT INGREDIENTS: 99.064%

EPA Reg. No. 36333-1
EPA Establishment No. 1018-CT-1

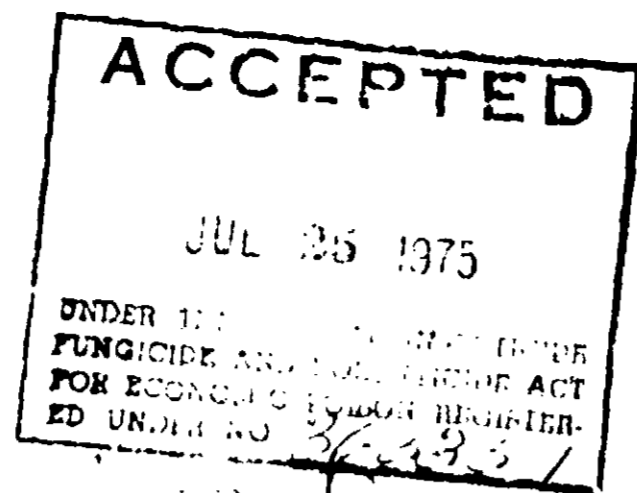
 **POLLUTION CONTROL PRODUCTS, INC.**
A CONSOLIDATED FOODS COMPANY
RESPONSIVE TO CONSUMER NEEDS
1040 BAYVIEW DRIVE, FORT LAUDERDALE, FLORIDA 33304

NET CONTENTS:
One
Mark II NATURALIZER Water Unit

ACCEPTED
JUL 23 1975
UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTER-
ED UNDER NO. 36333-1

Comments

ACCEPTED WITH COMMENTS



MARK II NATURALIZER™ WATER UNIT

INSTALLATION, OPERATION AND
MAINTENANCE INSTRUCTIONS

SPECIFICATIONS

Flow Rate (Minimum)	0.5 gpm @ 50 psi
Operating Pressure (max.)	100 psi
Unit Dimensions	17 1/2 x 8 x 7 1/2
Holding Tanks (material)	polyvinylchloride
Tubing	polyethylene

INSTRUCTIONS

The Mark II Naturalizer™ Water Unit has been designed primarily for installation under a kitchen sink. A separate faucet is supplied for mounting on or near the top edge of the sink.

This unit may also be installed in-line to service drinking water cooler, beverage dispensers, coffee machines, ice makers, etc. For this purpose a "tee" may be installed in the plastic tubing between the unit and the faucet.

Installation instructions must be carefully followed to assure proper and longlasting operation of the unit.

Do not connect to a hot, deionized, distilled or sea water source.

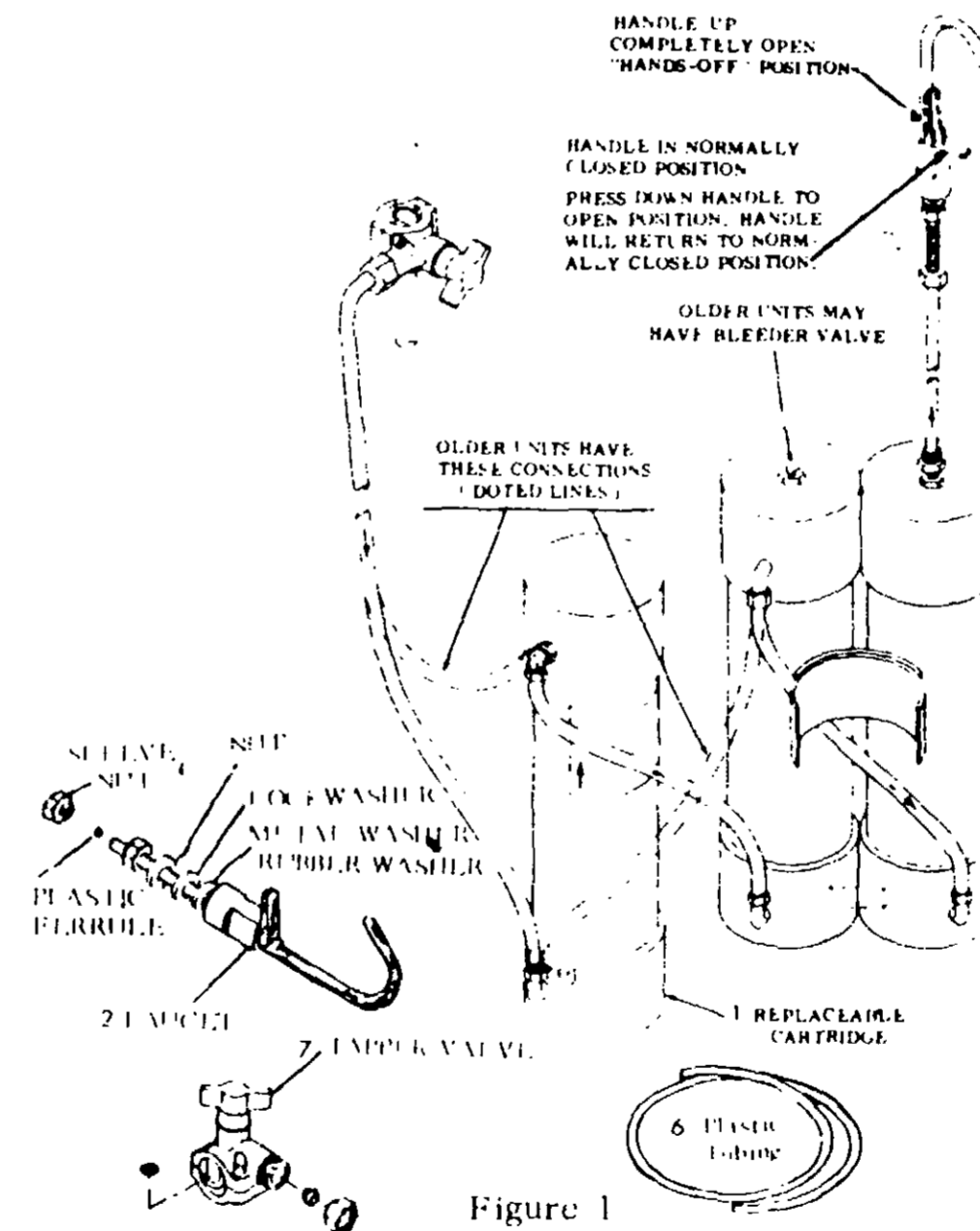
When used as directed the specially treated activated carbon media in your PCP MARK II NATURALIZER WATER UNIT removes chemicals, color, taste and odor causing agents like chlorine, chloroform, carbon tetrachloride, DDT, and many other insecticides and pesticides, rust and silt.

At the same time, oligodynamic silver ions inhibit the growth of bacteria trapped in the filter element.

Replace the primary cartridge when the flow rate diminishes significantly. Contact your local dealer or P.C.P. for a replacement cartridge. Keep this booklet for reference.

1. LIST OF PARTS TO BE INSTALLED

ITEM	NAME	QUANTITY	SERVICE NO.



b. Determine where you want the faucet and unit installed. See figure 2. An accessory hole may be available for the faucet in some sinks. This would eliminate the need for drilling a new hole through the sink flange or counter top.

c. If your cold water pipe is threaded brass or galvanized iron pipe or is larger than 5/8 inch diameter or smaller than 3/8 inch diameter, do not attempt to install the line tapping valve (7, figure 1.) Consult plumber for hook-up.

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1. LIST OF PARTS TO BE INSTALLED

ITEM	NAME	QUANTITY	SERIAL NO.
1	Replacement cartridge	1	41971
2	Faucet	1	13162
3	Brass insert	4	
4	Brass ferrule	3	
5	Plastic ferrule	3	
6	Plastic tubing	6 Ft.	41970
7	Line tapper valve	1	13161

2. LIST OF TOOLS THAT MAY BE REQUIRED

- a. Hammer
- b. Center punch
- c. Electric or Manual Drill
- d. 1/4" diameter Drill
- e. 7/16" diameter Drill
- f. 7/16" Open End Wrench
- g. 1/2" Open End Wrench
- h. Phillipshead Screwdriver
- i. 9/16" Open End Wrench

3. INSTALLATION INSTRUCTIONS

a. Make sure that this unit installation will conform to local building (plumbing) codes. (Some areas require copper tubing in lieu of plastic tubing.) If copper tubing is required, a plumber may be required to install the unit.

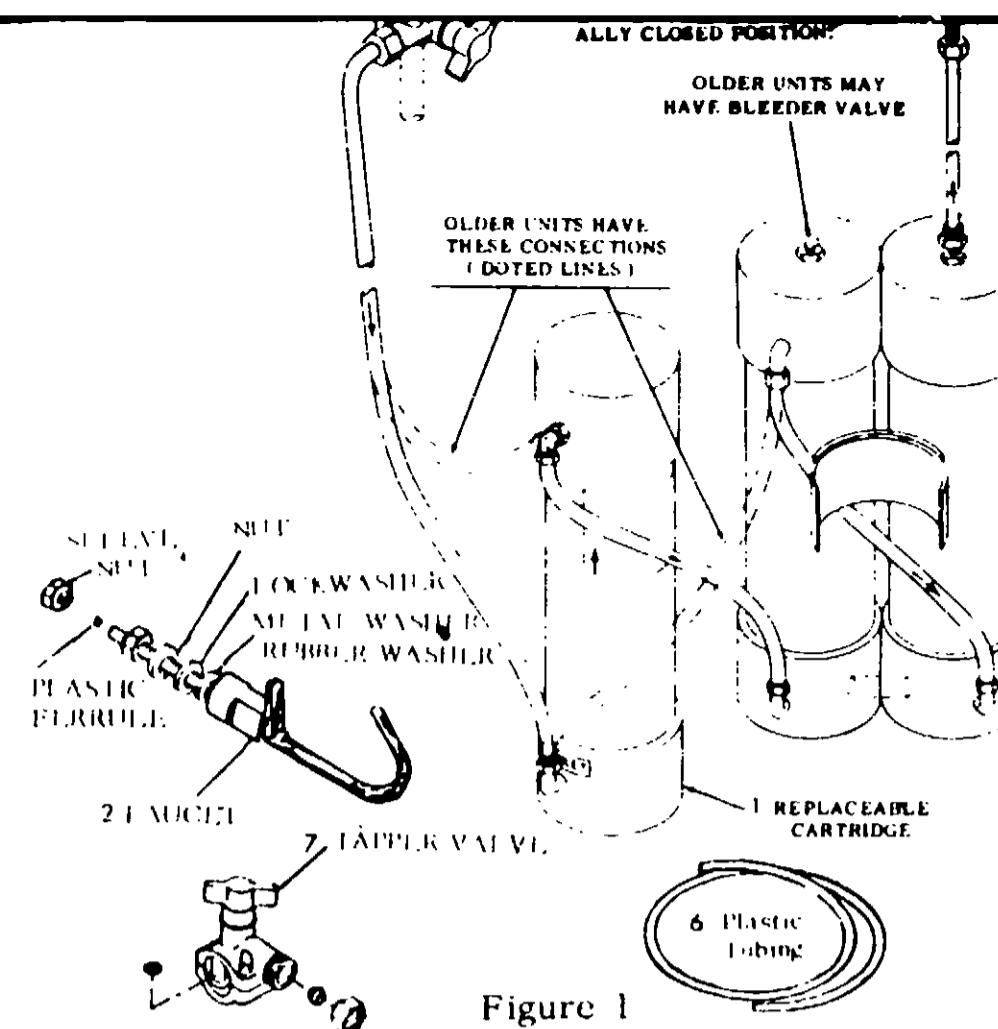


Figure 1

b. Determine where you want the faucet and unit installed. See figure 2. An accessory hole may be available for the faucet in some sinks. This would eliminate the need for drilling a new hole through the sink flange or counter top.

c. If your cold water pipe is threaded brass or galvanized iron pipe or is larger than 5/8 inch diameter or smaller than 3/8 inch diameter, do not attempt to install the line tapping valve (7, figure 1.) Consult plumber for hook-up.

d. These instructions are written primarily to aid the purchaser or installation man in installing the unit, using plastic tubing. The ease of cutting and bending this tubing makes it the most desirable material. It is also chemically inert, tasteless and long-lasting. In some areas, however, because of local codes or special situations, it may be necessary to use copper tubing. Inlet and outlet fittings will accept both copper and plastic tubing. When using copper tubing, use brass ferrule Item 4. When using plastic tubing, use ferrule Item 5 and brass insert Item 3.

e. The unit should be installed vertically to provide the best operating characteristics and space utilization. Locate unit on floor or base shelf of cabinet and against the rear or side wall.

Try to locate in such a manner that the outlet fitting on the unit is close to being directly under the new faucet location.

Avoid having unit and plastic tubing closer than 6" from a heating pipe, radiator or hot water line.

Check to make certain that there is no obstruction in the area where the hole for the faucet will be drilled.

4. INSTALLING THE FAUCET

a. If required, drill a 7/16 inch hole in metal sink or counter top where your faucet is to be located. Cover this area with masking tape on enameled sinks to prevent chipping. Centerpunch a mark in metal sink or countertop to prevent drill from walking. If accessory hole is used, it may be necessary to use a chrome-plated washer (available at your local plumber supply) approximately 1 1/2 inches in diameter with 1/2 inch hole on top and bottom face of sink.

b. Unscrew sleeve nut (figure 1) from faucet. Remove plastic ferrule from sleeve nut and remove the nut lock-washer and metal washer from the threaded shaft of the faucet.

c. Before installing faucet in place, turn curved spout clockwise by hand into the faucet body until it stops, then back off to the desired position. Spout should be free to swivel.

d. Place faucet threaded shaft through the hole in the sink making sure that the rubber washer is between the top of the sink and the body of the faucet (or between 1 1/2 inch diameter washer and faucet, if used.)

e. From under sink, slide metal washer then lock-washer onto threaded shaft of faucet. Thread nut onto faucet shaft and tighten with 9/16" open end wrench.

f. Slide plastic tubing (6, figure 1) through sleeve nut and plastic ferrule in direction as shown in (B) of figure 3.

CAUTION: Make sure small surface of plastic ferrule faces threaded end of sleeve nut.

Insert brass insert (3, figure 1) into plastic tubing until it bottoms. Push this assembly into hole in threaded end of shaft of the faucet until it bottoms and then tighten sleeve nut onto shaft with a 1/2" open end wrench.

CAUTION: Continue to push plastic tubing into hole while tightening the sleeve nut to insure proper seating and avoid kinking tubing. Test connection by pulling on plastic tubing with a moderate amount of force. If tubing comes out of sleeve nut, connection wasn't tight enough.

5. INSTALLING LINE TAPPER VALVE

a. Turn off cold water supply valve.

b. Unscrew the three phillips head screws securing the bottom of the line tapping valve (7, figure 1) to the top. Remove the bottom and two spacers.

c. Before installing valve turn handle back to the left (counter clockwise) until the piercing blade is protruded into the body. Failure to do so will break the needle. Make sure rubber washer is seated properly in recess around piercing blade.

d. Place valve against cold water pipe and add spacer as determine by the size of the pipe. (Both spacers for 3/8" pipe, 1 spacer for 1/2" pipe and no spacers for 5/8" pipe.) Secure valve bottom to the valve body with the three phillips head screws. Location of valve should be

6. CONNECTING THE MARK II NATURALIZER WATER UNIT

a. Run plastic tubing from faucet to OUTLET connection (Red Plastic Cap) at TOP of cylinder. Cut off plastic tubing after allowing enough length to make the connection (allow approximately 3" slack) Avoid sharp bends.

b. Remove red plastic cap from the outlet, top of unit. Then follow procedure from paragraph 4f.

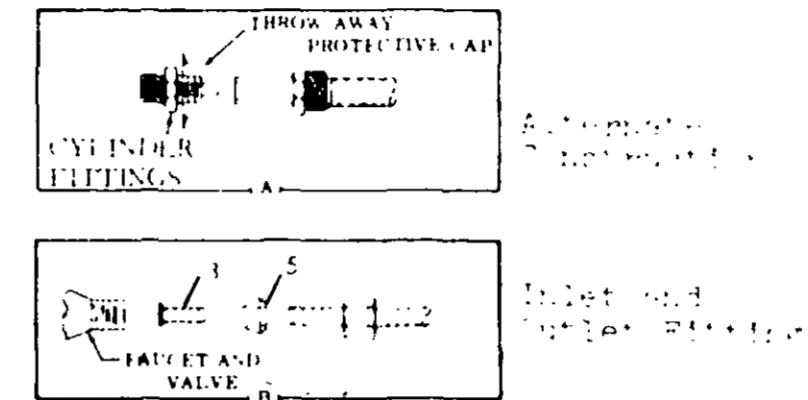


Figure 3

c. Remove red plastic cap from inlet connection, lower side of cartridge. Then follow procedure from paragraph 4f.

d. Run plastic tubing to line tapping valve. Cut off plastic tubing allowing enough length to make connection plus approximately 3" slack.

e. Remove sieve nut and brass ferrule from tapper valve (Figure 1).

[Note the following - If copper tubing is required in the installation, use brass ferrule. If plastic tubing is used in the installation, then use plastic ferrule (Item 5) and brass insert (Item 3).] Fig. 3-B

Make connection of plastic tubing from cartridge inlet to the line tapping valve (Item 7) in the same manner as the faucet connection described in paragraph 4f.

f. Open your cold water supply valve and place your faucet handle in the UP (completely open "Hands Off") position as shown in figure 1. Now back off handle of line tapping valve until a full flow of water is observed flowing from faucet. It will take several minutes to fill the unit with water and you may notice a slight gray color in the water at first. This is normal and will disappear. Allow the water to run for about 15 minutes. Shut off the faucet and check all connections for leaks, then open the faucet again and allow the water to run for another 15 minutes. You should now have sparkling, good tasting water.

7. CHANGING MARK II NATURALIZER™ WATER UNIT CARTRIDGE

To install a replacement cartridge, perform the following steps: (See figure 1.)

a. Turn off your cold water supply valve or close line tapping valve.

b. Open faucet to relieve pressure from system.

c. Remove sleeve nuts at top and bottom of replaceable cartridge and remove water lines.

d. Remove old cartridge from bracket on unit assembly

f. Slide plastic tubing (6, figure 1) through sleeve nut and plastic ferrule in direction as shown in (B) of figure 3.

CAUTION: Make sure small surface of plastic ferrule faces threaded end of sleeve nut.

Insert brass insert (3, figure 1) into plastic tubing until it bottoms. Push this assembly into hole in threaded end of shaft of the faucet until it bottoms and then tighten sleeve nut onto shaft with a 1/2" open end wrench.

CAUTION: Continue to push plastic tubing into hole while tightening the sleeve nut to insure proper seating and avoid kinking tubing. Test connection by pulling on plastic tubing with a moderate amount of force. If tubing comes out of sleeve nut, connection wasn't tight enough.

5. INSTALLING LINE TAPPER VALVE

- Turn off cold water supply valve.
- Unscrew the three phillips head screws securing the bottom of the line tapping valve (7, figure 1) to the top. Remove the bottom and two spacers.
- Before installing valve turn handle back to the left (counter clockwise) until the piercing blade is retracted into the body. Failure to do so will break the needle. Make sure rubber washer is seated properly in recess around piercing blade.
- Place valve against cold water pipe and add spacer as determine by the size of the pipe. (Both spacers for 3/8" pipe, 1 spacer for 1/2" pipe and no spacers for 5/8" pipe.) Secure valve bottom to the valve body with the three phillips head screws. Location of valve should be as high on the pipe as possible to help prevent inadvertent hitting of connections during daily use of storage space. Position valve so that outlet points in direction of the Mark II Naturalizer Water Unit. Tighten screws uniformly in a manner to prevent cocking of the assembly on the pipe.
- Turn handle of valve "in" (clockwise) until tapping shaft of valve contacts pipe and continue turning until it cuts through pipe and bottoms inside valve. The water line is now pierced and the valve is shut off.

CAUTION: Do not use wrench or any other tool for this operation. It must be accomplished by hand rotation of valve handle.

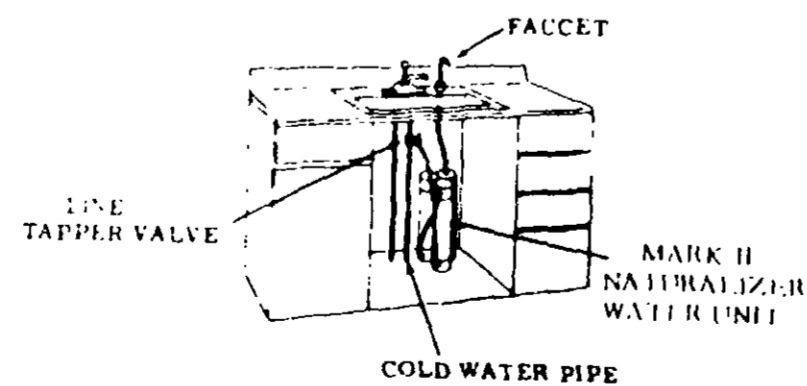


Figure 2

off plastic tubing allowing enough length to make connection plus approximately 3" slack.

e. Remove sleeve nut and brass ferrule from taper valve (Figure 1).

[Note the following - If copper tubing is required in the installation, use brass ferrule. If plastic tubing is used in the installation, then use plastic ferrule (Item 5) and brass insert (Item 3).] Fig. 3-B

Make connection of plastic tubing from cartridge inlet to the line tapping valve (Item 7) in the same manner as the faucet connection described in paragraph 4f.

f. Open your cold water supply valve and place your faucet handle in the UP (completely open "Hands Off") position as shown in figure 1. Now back off handle of line tapping valve until a full flow of water is observed flowing from faucet. It will take several minutes to fill the unit with water and you may notice a slight gray color in the water at first. This is normal and will disappear. Allow the water to run for about 15 minutes. Shut off the faucet and check all connections for leaks, then open the faucet again and allow the water to run for another 15 minutes. You should now have sparkling, good tasting water.

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To install a replacement cartridge, perform the following steps: (See figure 1.)

- Turn off your cold water supply valve or close line tapping valve.
- Open faucet to relieve pressure from system.
- Remove sleeve nuts at top and bottom of replaceable cartridge and remove water lines.
- Remove old cartridge from bracket on unit assembly and replace with new cartridge in same position with arrow on label pointing up.

NOTE: On some older units the INLET fitting is at the top of the cartridge instead of at the bottom. This may necessitate installing a longer piece of plastic tubing from the tapping valve. In any event, the new cartridge should be installed right side up as indicated by the arrow on the label.

e. Remove red plastic caps from new cartridge and connect plastic tubes to new cartridge. Then follow procedure from paragraph 6f.

f. If there is a bleeder valve on original unit (see figure 1) open to remove air in system.

8. MAINTENANCE OF THE UNIT

This unit is designed to provide years of trouble free operation when used properly. Therefore, it is important to adhere to the following advice to assure continued trouble free operation:

- Keep all objects clear of plastic tubing to prevent kinking which in turn will reduce water flow operation.
- Use care to avoid any strain or pull on any of the plastic tubes as this could cause leaks at the fittings.
- Replace cartridge when water flow becomes too slow.